

USFS STANDARD FIRE ENGINE VALVES

(Reference: NWCG Water Handling Equipment Guide)

- #1 - **TANK TO PUMP** - Flows water from the tank to the pump.
- #2 - **PUMP TO TANK** - Flows water from the pump to the tank.
- #3 - **OVERBOARD DISCHARGE** - Flows water from the pump to the main discharge lines.
- #4 - **HOSE REEL** - Flows water from the pump to the hose reel(s).
- #5 - **ENGINE PROTECTION** - Flows water from the pump to an engine protection discharge.
- #6 - **PRIMER** - With the priming unit, allows the centrifugal pump to be primed.
- #7 - **ADJUSTABLE PRESSURE RELIEF** - Relieves excess pressure, preventing pump damage.
- #8 - **OVERBOARD SUCTION** - Flows water from an external source to pump.
- #9 - **RESERVE SUPPLY** - Flows reserve water to the pump.
- #10 - **TANK TO PLUMBING** - Shuts off water from the tank to the plumbing.
- #11 - **PUMP & PLUMBING DRAIN** - Drains water from the pump and plumbing.
- #12 - **PUMP COOLANT CLEAN-OUT** - Flushes debris from plumbing.
- #13 - **GRAVITY TANK DRAIN** - Drains water tank.
- #14 - **FOAM BYPASS** - Water routed around foam unit (Water Only Discharge).
- #15 - **PUMP TRANSFER** - Switches the pump to either parallel or series operation
- #16 - **ENGINE COOLER** - Circulates cool water to/from chassis engine (Heat Exchanger).
- #17 - **PUMP BYPASS** - Circulates water from the pump back to the tank for pump cooling.
- #18 - **LOW VOLUME GRAVITY** - Gravity discharge for backpack fill.
- #19 - **WATER ONLY DISCHARGE** - Overboard discharge plumbed prior to the foam injection.

